

Sherlock Leak Detector Type CG Concentrate

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

According to Canadian Hazardous Products Regulation – January 28, 2015

Date of issue: August 30, 2015 Supersedes: 020311 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : Sherlock Leak Detector Type CG Concentrate
 Product code : CG CON
 Other means of identification : Type CG Concentrate

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Leak testing

1.3. Details of the supplier of the safety data sheet

Ratermann Manufacturing, Inc.
 601 Pinnacle Place
 Livermore, CA 94550

Telephone Number: 800-264-7793

1.4. Emergency telephone number

Emergency number : CHEMTREC - 1-800-424-9300 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US, GHS-CA)

Skin Corr. 1B	H314 -	Causes severe skin burns and eye damage
Eye Dam. 1	H318 -	Causes serious eye damage
Skin Sens. 1	H317 -	May cause an allergic skin reaction
Carc. 2	H351 -	Suspected of causing cancer
STOT SE 3	H335 -	May cause respiratory irritation

Full text of H-phrases: see section 16

WHMIS Classification

D2A – Carcinogen, D2B –Eye Irritant, Skin Sensitizer, E - Corrosive (WHMIS 1998)

2.2. Label elements

GHS-US and GHS-CA labeling

Hazard pictograms (GHS-US, GHS-CA) :



Signal word (GHS-US, GHS-CA) :

Danger

Hazard statements (GHS-US, GHS-CA) :

H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H335 - May cause respiratory irritation
 H351 - Suspected of causing cancer

Precautionary statements (GHS-US, GHS-CA) :

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash clothing, hands, forearms and face thoroughly after handling
 P271 - Use only outdoors or in a well-ventilated area
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting
 P302 + P352 - If on skin: Wash with plenty of water

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P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a poison center/doctor/...
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US/CA)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US/CA)
COCAMIDE DEA	(CAS No) 68603-42-9	17-22	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351
TEA-DODECYLBENZENESULFONATE	(CAS No) 27323-41-7	10 - 13	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
DODECYLBENZENE SULFONIC ACID	(CAS No) 27176-87-0	8 - 11	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
2,2'-iminodlethanol, diethanolamine	(CAS No) 111-42-2	4 - 7	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351
Triethanolamine	(CAS No) 102-71-6	4 - 7	None
Glycerin	(CAS No) 56-81-5	< 2	None

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Call a physician immediately.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of mild soap and water. Call a physician immediately.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor immediately..

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Burns. May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Serious damage to eyes.

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Symptoms/injuries after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Explosion hazard : Not expected to be a fire/explosion hazard under normal conditions of use.
Reactivity : Stable under normal conditions.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid allowing fire-fighting water to enter environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. Avoid breathing mist, spray, vapors. Avoid contact with skin and eyes. For further information refer to section 8 Exposure controls/personal protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (sand), then place in suitable container.
Methods for cleaning up : Wipe up with absorbent material (for example cloth). Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapor. Wear personal protective equipment. Avoid breathing mist, spray, vapors. Avoid contact with skin and eyes.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in original container. Store in a well-ventilated place. Keep container closed when not in use. Store above 35°F (2°C) in a dry place out of sunlight.
Incompatible products : Strong bases, strong acids, oxidizing and reducing agents, isocyanates, nitrosating agents.
Incompatible materials : None known.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dioethanolamine (111-42-2)		
ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Inhalable Fraction and Vapor)
ACGIH	Remark (ACGIH)	Skin
OSHA	Not applicable	

Triethanolamine (102-71-6)		
ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH	Remark (ACGIH)	
OSHA	Not applicable	

Glycerin (56-81-5)		
ACGIH	Not applicable	
OSHA	OSHA PEL - 15 mg/m ³ (total dust); 5 mg/m ³ (respirable fraction) (glycerin - mist)	

ACGIH: American Conference of Governmental Industrial Hygienists, TWA: Time Weighted Average, OSHA: Occupational Safety and Health Administration, URT: Upper Respiratory Tract, Irr: Irritation.

8.2. Exposure controls

Appropriate engineering controls	: Not necessary with sufficient ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Wash hands, forearms and face thoroughly after handling. Gloves. Protective goggles. Apron.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Chemical resistant apron.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information	: Do not breathe mist, vapor, or spray. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Blue
Odor	: Characteristic
Odor threshold	: Not available
pH	: Not available
Relative evaporation rate (butyl acetate=1)	: Not available
Relative evaporation rate (water=1)	: 3.3
Melting point	: Not available
Freezing point	: 32°F, 0°C
Boiling point	: 218°F, 103 °C
Flash point	: >100°C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 7.82 mm Hg
Relative vapor density at 20 °C	: 1.19 (air=1)
Relative density	: 1.034 (water = 1)

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Density	: Not available
Solubility	: Water: 100 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidizing properties	: No data available.
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not applicable

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong bases, strong acids, oxidizing and reducing agents, isocyanates, nitrosating agents.

10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eye contact.

Acute toxicity : Not classified

Dibutylamine (111-42-2)	
LD50 oral rat	680 mg/kg female
LD50 dermal rabbit	8180 mg/kg male
LC50 inhalation rat (mg/l)	Not available

Cocamide DEA (68803-42-9)	
LD50 oral rat	12400 µl/kg
LD50 dermal rabbit	Not available
LC50 inhalation rat (mg/l)	Not available

Methanolamine (102-71-6)	
LD50 oral mouse	5200 mg/kg
LD50 dermal rabbit	>19870 mg/kg
LC50 inhalation rat (mg/l)	> Saturated vapor concentration

Glycerin (56-81-5)	
LD50 oral mouse	4100 mg/kg
LD50 dermal rabbit	>23,000 mg/kg
LC50 inhalation rat (mg/l)	> 143 mg/m ³ /4H

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Causes serious eye damage.

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Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Suspected of causing cancer. (Diethanolamine and Cocamide DEA – IARC Group 2B – Possibly Carcinogenic to Humans)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	: Skin sensitization, skin and eye burns and damage, potential cancer hazard.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Serious damage to eyes.
Symptoms/injuries after ingestion	: Burns.
Chronic symptoms	: None known

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not determined.

12.2. Persistence and degradability

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Persistence and degradability : Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

12.4. Mobility (in soil)

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Ecology - soil : Not determined.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

US Department of Transportation (DOT)

Not a dangerous good for transport

Canadian Transportation of Dangerous Goods Act/Regulations (TDG)

Not a dangerous good for transport

Transport by sea

Not determined

Air transport

Not determined

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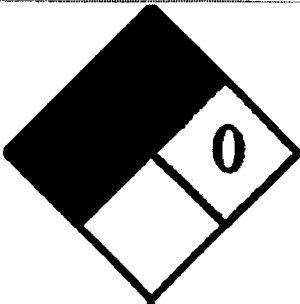
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SECTION 15: Regulatory information

15.1. US Federal regulations

USA

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USA OSHA Hazard Communication Standard (According to Federal Register/ Vol. 77, No.58/ Mon Mar 26, 2012/Rules & Regulations)	Classified as a hazardous product. See Section 2 for details.								
National Fire Protection Association® (NFPA®) Classification									
American Coatings Association (ACA) Hazardous Materials Identification System ® (HMIS ®) III Classification	<table border="1"> <tr> <td></td> <td>3*</td> </tr> <tr> <td></td> <td>1</td> </tr> <tr> <td>Physical Hazard</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>C</td> </tr> </table>		3*		1	Physical Hazard	0	Personal Protection	C
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Physical Hazard	0								
Personal Protection	C								

15.2. International regulations

CANADA

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WHMIS 2015 – GHS	Classified as a hazardous product/ See Section 2 for details.
WHMIS Classification 1998 (Controlled products Regulations)	Class D2A - Very Toxic Material causing other toxic effects - Carcinogenicity Class D2B - Toxic material causing other toxic effects – Eye irritant, Skin sensitizer Class E - Corrosive This product has been classified in accordance with the hazard criteria of the <u>Controlled Products Regulations</u> and the MSDS contains all the information required by the <u>Controlled Products Regulations</u> .

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Indication of changes	: New Safety Data Sheet (SDS).
Data sources	: GHS-US, GHS-CA classification parameters. References available upon request.
Other information	: None.
Date	: August 30, 2015

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Full text of H-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer

SDS USA and SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product